

GIS at MDOT



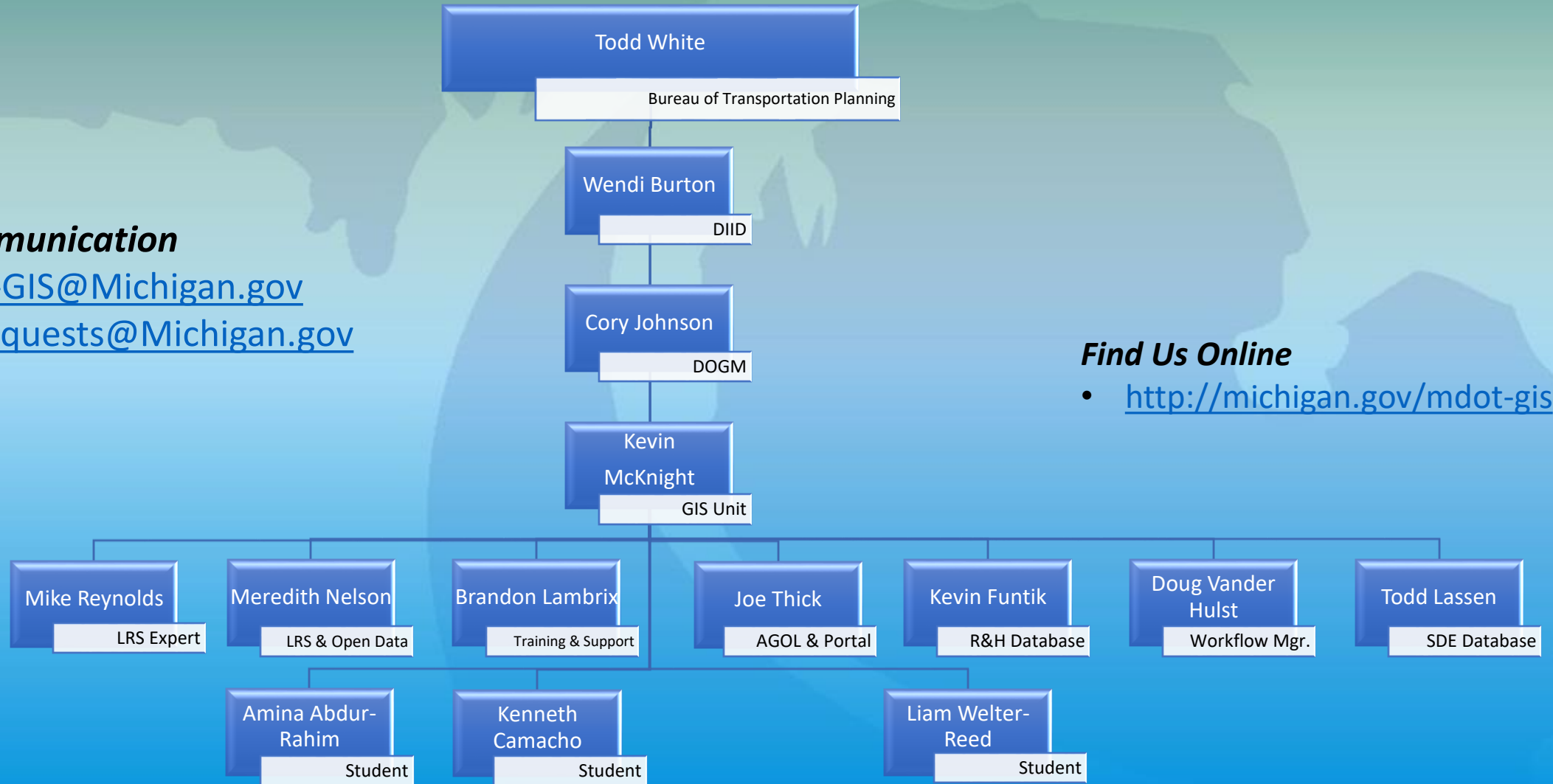
GIS Unit Structure and Contact Information

Unit Communication

- MDOT-GIS@Michigan.gov
- GIS_Requests@Michigan.gov

Find Us Online

- <http://michigan.gov/mdot-gis>



GIS Unit Roles & Responsibilities

- Enterprise GIS Database Management
- Statewide Liner Referencing System (LRS) Management
- Web Map Services
- Web GIS Administration
- TAMS Implementation & Support
- Data & Mapping Standards
- Esri Enterprise Advantage Program (EEAP)
- GIS Training
- Road Asset Inventory

GIS Software Utilized at MDOT

- Desktop

- ArcMap (10.6.1)
- ArcPro (2.2.4)

ArcGIS Desktop
(500+ installs)

- Web

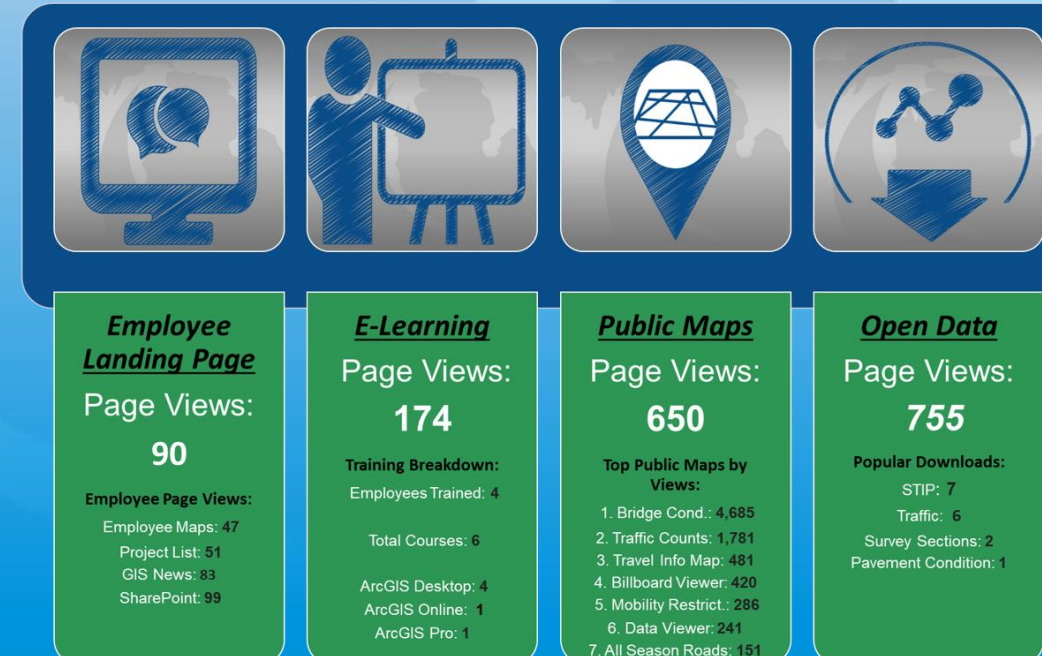
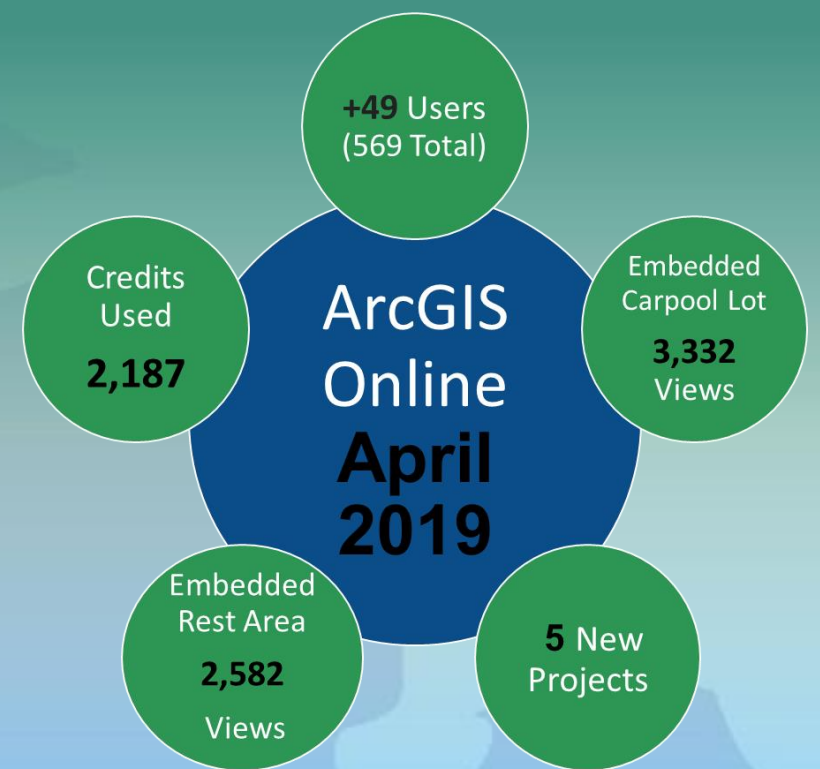
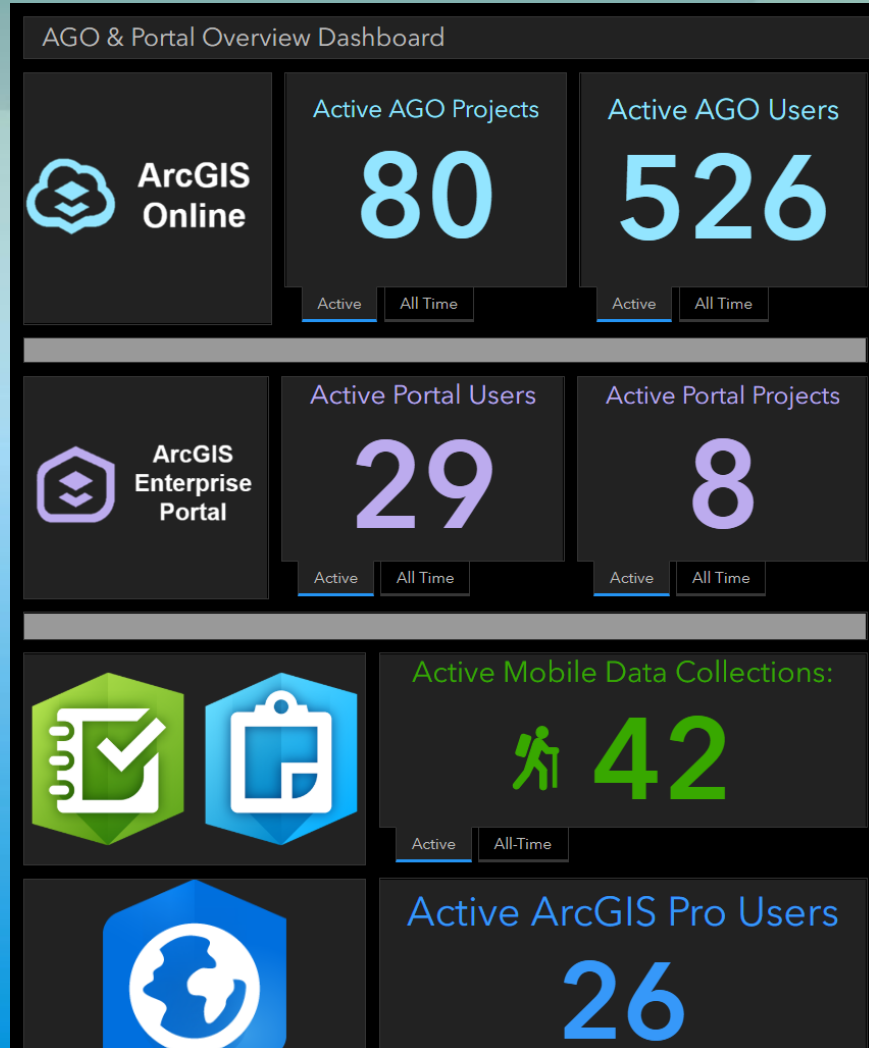
- ArcGIS Online
- Portal for ArcGIS

ArcGIS Online
(500+ Active Users)

- Mobile

- Explorer for ArcGIS
- ArcGIS Collector App
- Survey123 for ArcGIS

ArcGIS Online Use




GIS Partnerships

- ArcGIS Online
 - Collaboration with DNR and/or MSP through ArcGIS Online
 - View data and assist with collection efforts
- Esri Enterprise License Agreement
 - Signed by multiple State of Michigan Agencies
 - Increased support from Esri



Find Us On The Web

- <http://michigan.gov/mdot-gis>



Michigan Department of Transportation

[MDOT Home](#) [Contact](#) [Organization](#) [FAQ](#) [Sitemap](#) [MI.gov](#)

[Roads and Travel](#)
[Public Transportation](#)
[Rail](#)
[Bridges and Structures](#)
[News and Information](#)
[Projects and Programs](#)
[Maps](#)
[Federal-Aid Highways](#)
[GIS & Open Data](#)
[Reports, Publications and Specs](#)
[About MDOT](#)
[Doing Business](#)
[Aeronautics](#)
[Title VI Nondiscrimination](#)
[Sign up for email from MDOT!](#)


MDOT / MAPS / GIS & OPEN DATA

Geographic Information System (GIS) & Open Data


Transforming data into information, and information into knowledge.

GIS Unit Mission:
To support the implementation and use of geographic information system (GIS) software, hardware, and services department-wide. MDOT's GIS Unit provides innovative solutions that solve spatial problems and support more informed decisions about Michigan's transportation infrastructure. The unit develops and maintains the following services: enterprise GIS databases, linear referencing systems, web services, ArcGIS Online, Open Data Portal, GIS training, and Transportation Asset Management System (TAMS) implementation.


What is GIS?
A collection of computer hardware, software, and geographic data for capturing, storing, updating, manipulating, analyzing, and displaying all forms of geographically referenced information; i.e., data identified according to their locations (latitude/longitude, state plane coordinates, etc.). GIS combines geography with system information. In simple terms, it is a map linked to a database.



MDOT ArcGIS Online

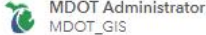



MDOT Maps



MDOT Open Data


[Michigan.gov Home](#) | [MDOT HOME](#) | [Site Map](#) | [FAQ](#) | [FOIA](#) | [MDOT Title II ADA](#) | [ORR](#)
[Policies](#) | [Michigan News](#) | [ADA](#)

[Home](#) [Gallery](#) [Map](#) [Scene](#) [Groups](#) [Content](#) [Organization](#) 




Michigan Department of Transportation


A collaborative information site brought to you by MDOT




Employee Landing Page



ESRI GIS Online Training



MDOT Online Maps




MDOT Open Data


Michigan Department of Transportation

Welcome to MDOT's ArcGIS Online (AGOL) page - a collaborative environment for sharing commonly used maps and data across MDOT divisions, staff, business partners, and the public. The site provides an interactive mapping platform that helps visualize department data, analyze patterns, track assets, and strengthen transportation planning efforts across the state.


This site is one of the many ways MDOT is innovating in support of our mission to **provide the highest quality integrated transportation services for economic benefit and improved quality of life.**



MDOT Home



Michigan GIS



DNR GIS

TERMS OF USE: The Michigan Department of Transportation (hereinafter referred to as MDOT) is offering this service to enable the download of data. The information contained in this site is provided as a public service to the citizens of Michigan and to the internet community and serves as a business resource for MDOT and State of Michigan employees. The information available from this website is subject to change on a regular basis, without notice. Every effort is made to provide and maintain useful, accurate, complete, and timely information on this site. HOWEVER, SOME DATA MAY BE INCOMPLETE OR OUTDATED. IN PARTICULAR, BUT WITHOUT LIMITING ITS DISCLAIMER, neither MDOT, the State of Michigan nor any agency thereof, nor any of their employees, make any warranty, express or implied, nor assume any legal liability or responsibility for the QUALITY, CONTENT, COMPLETENESS, SUITABILITY, ADEQUACY, SEQUENCE, ACCURACY, TIMELINESS OR USEFULNESS of the information, data, maps, and apps represented on this site. MDOT strives for continuous availability of the website for which this site and the data it contains is maintained, however, MDOT will not be responsible in the event the system is down at any point. BY ENTERING THIS WEBSITE AND/OR ACCESSING DATA, I AGREE THAT



ArcGIS Online

[Employee Landing Page](#)[ESRI GIS Online Training](#)[MDOT Online Maps](#)[MDOT Open Data](#)[MDOT
Home Page](#)[MDOT ArcGIS
Enterprise Portal](#)[State of
Michigan GIS](#)[DNR GIS](#)

Welcome to MDOT's ArcGIS Online (AGO) page - a collaborative environment for sharing commonly used maps and data across MDOT divisions, staff, business partners, and the public. The site provides an interactive mapping platform that helps visualize department data, analyze patterns, track assets, and strengthen transportation planning efforts across the state.

This site is one of the many ways MDOT is innovating in support of our **mission to provide the highest quality integrated transportation services for economic benefit and improved quality of life.**

Online Projects

90

Mobile Collections

42

No Issues Reported

Online Users

567

ArcGIS Pro Users

26

TERMS OF USE: The Michigan Department of Transportation (hereinafter referred to as MDOT) is offering this service to enable the download of data. The information contained in this site is provided as a public service to the citizens of Michigan and to the internet community and serves as a business resource for MDOT and State of Michigan employees. The information available from this website is subject to change on a regular basis, without notice. Every effort is made to provide and maintain useful, accurate, complete, and timely information on this site. HOWEVER, SOME DATA MAY BE INCOMPLETE OR OUTDATED. IN PARTICULAR, BUT WITHOUT LIMITING ITS DISCLAIMER, neither MDOT, the State of Michigan nor any agency thereof, nor any of their employees, make any warranty, express or implied, nor assume any legal liability or responsibility for the QUALITY, CONTENT, COMPLETENESS, SUITABILITY, ADEQUACY, SEQUENCE, ACCURACY, TIMELINESS OR USEFULNESS of the information, data, maps, and apps represented on this site. MDOT strives for continuous availability of the website for which this site and the data it contains is maintained, however, MDOT will not be responsible in the event the system is down at any point. BY ENTERING THIS WEBSITE AND/OR ACCESSING DATA, I AGREE THAT THE INFORMATION ON THIS WEBSITE MAY BE INACCURATE, it is the sole responsibility of the user to determine the usability of the data for their purposes. In no event shall MDOT have any liability whatsoever for payment of any consequential, incidental, indirect, special, or tort damages of any kind arising out of the use of or reliance on the geographic data or metadata. All maps and other material provided herein are protected by copyright.

Statewide GIS Updates

- Upgrades to Public Maps
 - Orange Blue Routes
 - All Season Roads
 - Billboards
- New Open Data
 - STIP
 - MPOs

The screenshot shows the MDOT website's 'Roads and Travel' section. The 'Winter Level of Service Map' is highlighted, with a description stating: 'Winter weather is here once again! MDOT is making available the winter weather Level of Service map to the public. This interactive map displays the service priorities for the entire state regarding snow and ice removal. The two priority classifications are: • Priority Level 1 - Provide maintenance service as appropriate under prevailing weather conditions with a goal of providing a pavement surface generally bare of ice and snow. This work may be accomplished using overtime as necessary. Clearing the pavement bare of ice and snow over its entire width will be a continuous process during and after the snow event using overtime as necessary. • Priority Level 2 - Provide maintenance service as appropriate under prevailing weather conditions with a goal of providing a pavement surface generally bare of ice and snow in the center portion wide enough for one wheel track in each direction. This work may be accomplished using overtime as necessary during a winter storm event. Clearing the pavement bare of ice and snow over its entire width will be accomplished as soon as reasonably possible after the winter storm event, without working overtime.' Below the text is a map of Michigan showing the winter level of service routes.

The screenshot shows the 'All Season Roads' map application. The map displays the state of Michigan with various road types highlighted in red, orange, and green. The legend indicates: 'All Season Roads' (red line), 'All Season Network' (orange line), and 'Proposed All Season' (green line). The map also shows boundaries for ACUB and Title VI Nondiscrimination. The right sidebar contains a navigation menu with links to 'Roads and Travel', 'Public Transportation', 'Rail', 'Bridges, Borders and Ferries', 'News and Information', 'Projects and Programs', 'Maps', 'Reports, Publications and Specs', 'About MDOT', 'Doing Business', 'Aeronautics', 'Title VI Nondiscrimination', and 'Sign up for email from MDOT!'. Below the menu is a 'Rural Task Force Program' section with links to '2020-2023 STP and State D Estimates', '2020-2023 RTF Call For Projects Letter', '2020-2023 RTF Call For Projects Instructions', 'MDOT FY 2019 Federal Allocation Targets', 'Transit Funding', 'Making Rural Task Forces Work', 'Michigan Rural Task Force 1st Annual Conference', 'RTF Annual Conference Bylaws Presentation', 'Rural Program Annual Conference', and 'Rural Task Force Oversight Board Milestone Letter'. At the bottom, there is an 'Application and Instructions' section with links to 'Federal Fund Exchange Guidelines 2019', 'Federal Fund Exchange Agreement 2019', 'Confirmation of Obligation of Federal STP Funds', 'Rural Task Force Guidelines updated March 2018', 'Rural Task Force Program Overview', 'Rural Federal Aid Matching Requirements', 'Rural Task Force Map', 'Project Eligibility Participation', 'Form 1797 Transit Project Data Sheet', and 'Form 1799 Road Project Data Sheet'. A red arrow points to the 'Links' section at the bottom right, which includes 'Contact Us', 'All Season Map', and 'LAP Obligation Report'.

- 
- A large, stylized map of the state of Michigan is visible in the background, rendered in a light blue color against a darker blue gradient. The map shows the outline of the state, including the Lower Peninsula and the Upper Peninsula.
- [Metro Region Flood Mitigation Story Map](#)
 - [Bridge Condition Story Map](#)
 - [Billboard Web App](#)
 - [Employee Landing Page](#)
 - [MDOT GIS News Page](#)
 - [MDOT Open Data](#)
 - [MDOT Infrastructure Condition Measures](#)
 - [Traffic Volumes](#)
 - [Carpool Lots](#)
 - [MDOT Rest Areas](#)